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PATENT

Attorney Docket No. EPT-001C2
(previously EPTM-P03-001)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): *Lee et al.*

CONF. NO.: 5991

SERIAL NO.: 10/773,032

GROUP NO.: 1631

FILING DATE: February 5, 2004

EXAMINER: Lin, Jerry

TITLE: PROTEOME EPITOPE TAGS AND METHODS OF USE
THEREOF IN PROTEIN MODIFICATION ANALYSIS

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO/SB/08, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Each of the references were previously cited or made of record in U.S. Patent Application Serial No. 10/712,425 from which this application claims priority. Applicants believe that the Information Disclosure Statement submitted in U.S.S.N. 10/712,425 complies with the requirements of 37 C.F.R. 1.98 (a)-(c). Accordingly, pursuant to 37 C.F.R. § 1.98(d), Applicants have not supplied copies of the references cited on the attached Form PTO/SB/08, but can do so upon request.

In addition, Applicants wish to inform the Examiner about the following U.S. patent applications and the contents of their file wrappers, including all Office actions issued therein:

1. U.S.S.N. 10/436,549, entitled "Unique Recognition Sequences and Methods of Use Thereof in Protein Analysis," filed on May 12, 2003, and published as 2004/0038307 A1, on February 26, 2005 (A39 in attached form PTO/SB/08).
2. U.S.S.N. 10/712,425, entitled "Proteome Epitope Tags and Methods of Use Thereof in Protein Modification Analysis," filed on November 13, 2003, and published as 2004/0180380 A1, on September 16, 2004 (A40 in attached form PTO/SB/08).

3. U.S.S.N. 11/066,967, entitled "Proteome Epitope Tags and Methods of Use Thereof in Protein Modification Analysis," filed on February 5, 2005, and published as 2006/0014212 A1, on January 19, 2006 (A41 in attached form PTO/SB/08).
4. U.S.S.N. 11/249,847, entitled "Unique Recognition Sequences and Methods of Use Thereof in Protein Analysis," filed on October 13, 2005, and published as 2006/0035270 A1 on February 16, 2006 (A42 in attached form PTO/SB/08).

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

(1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or

(2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and

the requisite Statement is below, **OR**

the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

(3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**

the requisite Statement is below, **AND**

the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,


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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/773,032
				Filing Date	February 5, 2004
				First Named Inventor	Lee
				Art Unit	1631
				Examiner Name	Lin, Jerry
Sheet	1	of	3	Attorney Docket Number	EPT-001C2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A18		4,478,744	10/23/1984	Mezei et al.	
A19		6,113,897	9/5/2000	Dano et al.	
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A41		2006/0014212	1/19/2006	Benkovic et al.	
A42		2006/0035270 A1	2/16/2006	Lee et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
B4		DE 40 23 945	1/30/1992		Abstract only in English
B5		EP 0 337 057	1/23/1989		Abstract only in English
B6		EP 0 267 355	3/27/1987		Abstract only in English
B7		WO 05/50223	6/2/2005		
B8		WO 05/78453	8/25/2005		
B9		JP 07285999 A	10/31/1995		
B10		WO 02/06834 A	1/24/2002		
B11		WO 99/39210 A	8/5/1999		

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Examiner Signature		Date Considered
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<p>Substitute for form 1449A/B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>				Complete if Known	
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C14	Amheiter <i>et al.</i> (1981) "Physiochemical and Antigenic Properties of Synthetic Fragments of Human Leukocyte Interferon," <i>Nature</i> 294: 278-80.			
	C15	Amon (1991) "Synthetic Peptides as the Basis for Vaccine Design," <i>Molecular Immunology</i> 28(3) 209-215.			
	C16	Barbas III <i>et al.</i> (1991) "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site," <i>PNAS USA</i> 88: 7978-7982.			
	C17	Barry <i>et al.</i> (2003) "Competitive Assay Formats for High-Throughput Affinity Arrays," <i>J. Biomol. Screen.</i> *3(3): 257-263.			
	C18	Borreback (2000) "Antibodies in Diagnostics - From Immunoassays to Protein Chips," <i>Immunology Today</i> 21(8): 379-381.			
	C19	Chames <i>et al.</i> (2000) "Antibody Engineering and its Applications in Tumor Targeting in Intracellular Immunization," <i>FEMS Microbiology Letters</i> 189: 1-8.			
	C20	Chou <i>et al.</i> (1974) "Prediction of Protein Conformation," <i>Biochemistry</i> 13(2): 222-245.			
	C21	Devereux <i>et al.</i> (1984) "A Comprehensive Set of Sequence Analysis Programs for the VAX," <i>Nucleic Acids Research</i> 12 (1) 387-395.			
	C22	Erali <i>et al.</i> (1996) "ELISA for Thyroglobulin in Serum: Recovery Studies to Evaluate Autoantibody Interference and Reliability of Thyroglobulin Values," <i>Clinical Chemistry</i> 42: 766-770.			
	C23	European Supplementary Search Report for EPSN 03808371, completed 06/01/2006, dated 06/12/2006.			
	C24	Harper <i>et al.</i> (1998) Two-Dimensional Gel Electrophoresis, Unit 10.4, <i>Current Protocols in Protein Science</i> , pgs. 10.4.1 to 10.4.36.			
	C25	Haupt <i>et al.</i> (1998) "Plastic Antibodies: Developments and Applications," <i>Trends Biotech.</i> 16: 468-476.			
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	C30	Hoogenboom <i>et al.</i> (2000) "Natural and Designer Binding Sites Made by Phage Display Technology," <i>Immunology Today</i> 21(8): 371-378.			
	C31	Hopp <i>et al.</i> (1983) "A Computer Program For Predicting Protein Antigenic Determinants," <i>Molecular Immunology</i> 20(4): 483-489.			
	C32	International Search Report for PCT/US2003/014846, mailed on 11/30/2004.			
	C33	International Search Report for PCT/US2004/038283, mailed on 12/22/2005.			
	C34	International Search Report for PCT/US2005/003634, mailed on 09/15/2005.			
	C35	Kuruvilla <i>et al.</i> (2002) "Dissecting Glucose Signaling with Diversity-Oriented Synthesis and Small-Molecule Microarrays," <i>Nature</i> 416: 653-657.			
	C36	Kyte <i>et al.</i> (1982) "A Simple Method for Displaying the Hydropathic Character of a Protein," <i>J. Mol. Biol.</i> 157: 105-132.			
	C37	Lesko <i>et al.</i> (2001) "Use of Biomarkers and Surrogate Endpoints in Drug Development and Regulatory Decision Making: Criteria, Validation, Strategies," <i>Annu. Rev. Pharmacol. Toxicol.</i> 41: 347-366.			
	C38	Li (2000) "Application of Display Technology in Protein Analysis," <i>Nature Biotechnology</i> 18: 1251-1256.			
	C39	Lizardi <i>et al.</i> (1998) "Mutation Detection and Single Molecule Counting Using Isothermal Rolling Circle Amplification," <i>Mat. Genet.</i> 19: 225-232.			
	C40	Maggio (1980) Enzyme-immunoassay, pgs. 53-70.			
	C41	Mariani <i>et al.</i> (1987) "Immunogenicity of a Free Synthetic Peptide: Carrier Conjugation Enhances Antibody Affinity for the Native Protein," <i>Molecular Immunology</i> 24(3): 297-303.			
	C42	Marks <i>et al.</i> (1992) "By-Passing Immunization: Building High Affinity Human Antibodies by Chain Shuffling," <i>Bio/Technology</i> 10: 779-783.			
Examiner Signature				Date Considered	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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C43	Michaud <i>et al.</i> (2003) "Analyzing Antibody Specificity with Whole Proteome Microarrays," <i>Nat. Biotech.</i> 21(12) 1509-12 (e-publication 11/9/03).	
C44	Nelson <i>et al.</i> (2000) "Demystified...Monoclonal Antibodies," <i>J. Clin. Pathol.: Mol. Pathol.</i> 53: 111-117.	
C45	Ohlin <i>et al.</i> (1996) "Light Chain Shuffling of a High Affinity Antibody Results in a Drift in Epitope Recognition," <i>Molecular Immunology</i> 33(1): 47-56.	
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C47	Schweitzer <i>et al.</i> (2002) "Multiplexed Protein Profiling on Microarrays by Rolling-Circle Amplification," <i>Nat. Biotechnol.</i> 20: 359-365.	
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C49	Shea <i>et al.</i> (1993) "Immunologic Detection and Measurement of Glycated Apolipoprotein B with Site Specific Monoclonal Antibodies," <i>J. Immunol. Methods</i> 162(1): 85-95.	
C50	Soderlind <i>et al.</i> (1999) "Complementary-Determining Region (CDR) Implantation: A Theme of Recombination," <i>Immunotechnology</i> 4: 279-285.	
C51	Soderlind <i>et al.</i> (2000) "Recombinant Germline-Derived CDR Sequences for Creating Diverse Single-Framework Antibody Libraries," <i>Nature Biotechnology</i> 18: 852-856.	
C52	Solovei <i>et al.</i> (2003) "Combinatorial Peptidomics: A Generic Approach for Protein Expression Profiling," <i>J. of Nanobiotechnology</i> 1: 4-19.	
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C54	Weckwerth (2003) "Metabolomics in Systems Biology," <i>Annu. Rev. Plant Biol.</i> 54: 669-689.	
C55	Werkmeister <i>et al.</i> (1991) "Multiple Antigenic Determinants on Type III Collagen," <i>Biochem. J.</i> 274: 895-898.	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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